

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number	10/551,639
Filing Date	12/14/2006
First Named Inventor	Wu et al.
Art Unit	3732
Examiner Name	Not assigned
Attorney Docket Number	139-05

GWS 3/16/2007

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)
	1	6,248,309	06/19/2001	Iyer et al.	
	2	5,939,050	08/17/1999	Iyer et al.	
	3	5,741,138	04/21/1998	Rice et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T <sup>2</sup>
	4	WO 04/093876	11/04/2004	Wu et al.		
	5	WO 02/091848	11/21/2002	Lawlor et al.		
	6	WO 98/44926	10/15/1998	Iyer et al.		

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	7	Beringer et al. (2001) "The Clinical Use of Colistin in Patients with Cystic Fibrosis," <i>Curr. Opin. Pulmonary Med.</i> 7:434-440	
	8	Birdsall et al. "Berberine: Therapeutic Potential of an Alkaloid Found in Several Medicinal Plants," <a href="http://www.thorne.com/altmedrev/fulltext/berb.html">http://www.thorne.com/altmedrev/fulltext/berb.html</a> , Downloaded on 01-03-2002	
	9	Costerton et al. (1999) "Bacterial Biofilms: A Common Cause of Persistent Infections," <i>Science</i> 284:1318-1322	
	10	Cowan, M.M. (1999) "Plant Products as Antimicrobial Agents," <i>Clin. Microbiol. Rev.</i> 12:564-582	
	11	Duke et al. (1990) "Promising Phytomedicinals," In; <i>Advances in New Crops</i> , Janik et al. Eds., Timber Press, Portland, pp. 491-498	
	12	Farnsworth et al. (1985) "Medicinal Plants in Therapy," <i>VMO Bull.</i>	
	13	Fine et al. (1998) "Clinical Use of Antibiotics in Dental Practice," <i>Int. J. Antimicrobial</i>	

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		<i>Agents</i> 9:235-238	
	14	Fives-Taylor et al. (2000) "Virulence Factors of <i>Actinobacillus actinomycetemcomitans</i> ," <i>Periodontology</i> 20:36-67	
	15	Giraud et al. (2000) "Evidence for Active Efflux as the Primary Mechanism of Resistance to Ciprofloxacin in <i>Salmonella enterica</i> Serovar Typhimurium," <i>Antimicrobial Agents Chemotherapy</i> 44:1223-1228	
	16	Govindan et al. (2000) "A Convenient Method for the Determination of the Quality of Goldenseal," <i>Fitoterapia</i> 71(3):232-235	
	17	Grippa et al. (1999) "Inhibition of <i>Candida rugosa</i> Lipase by Berberine and Structurally Related Alkaloids, Evaluated by High-Performance Liquid Chromatography," <i>Biosci. Biotechnol. Biochem.</i> 9:1557-1562	
	18	Haq, N. (2000) "In Vitro Productions of Bioactive Compounds from Medicinal and Aromatic Plants," <i>TelMedPak Agriculture Website</i>	
	19	Higuchi, T. (1987) "Prodrug and Drug Delivery – An Overview," In; <i>Bioreversible Carriers in Drug Design, Theory and Application</i> , Roch, E.B. Ed., Pergamon Press, pp. 1-12	
	20	Hu et al. (2000) "Coptidis Rhizoma Inhibits Growth and Proteases of Oral Bacteria," <i>Oral Diseases</i> 6:297-302	
	21	Khin-Maung-U et al. (1985) "Clinical Trial of Berberine in Acute Watery Diarrhoea," <i>Brit. Med. J.</i> 6509:1601-1605	
	22	Kristiansen et al. (1997) "The Potential Management of Resistant Infections with Non-Antibiotic," <i>J. Antimicrobial Chemotherapy</i> 40:319-327	
	23	Lambert et al. (2001) "A Study of the Minimum Inhibitory Concentration and Mode of Action of Oregano Essential Oil, Thymol and Carvacol," <i>J. Appl. Microbiol.</i> 91:453-462	
	24	Lewis, K. (2001) "Riddle of Biofilm Resistance," <i>Antimicrobial Agents Chemotherapy</i> 45:999-1007	
	25	Markham et al. (1999) "Multiple Novel Inhibitors of the NorA Multidrug Transporter of <i>Staphylococcus aureus</i> ," <i>Antimicrobial Agent Chemotherapy</i> 43:2404-2408	
	26	Matsumoto et al. (1999) "Inhibitory Effects of Oolong Tea Extract on Caries-Inducing Properties of Mutans Streptococci," <i>Caries Research</i> 33:441-445	
	27	McDonnell et al. (1999) "Antiseptics and Disinfectants: Activity, Action, and Resistance," <i>Clin. Microbiol.</i> 12:147-179	
	28	Merritt et al. (2000) "Factors Influencing Bacterial Adhesion," In; <i>Handbook of Bacterial Adhesion: Principles, Methods, and Applications</i> , An et al. edd., Humana Press, Totowa, NJ, USA, pp. 53-72	
	29	Morita et al. (1998) "NorM, A Putative Multidrug Efflux Protein, of <i>Vibria parahaemolyticus</i> and Its Homolog in <i>Escherichia coli</i> ," <i>Antimicrobial Agents Chemotherapy</i> 42:1778-1782	
	30	Oliviera et al. (2001) "The Role of Hydrophobicity in Bacterial Adhesion," In; <i>Biofilm</i>	
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		<i>Community Interactions: Chance or Necessity</i> , Gilbert et al. eds., pp. 11-22	
	31	Park et al. (1999) "Differential Inhibitory Effects of Protoberberine on Sterol and Chitin Biosynthesis in <i>Candida albicans</i> ," <i>J. Antimicrobial Chemotherapy</i> 5:667-674	
	32	Park et al. (2001) "HWY-289, A Novel Semi-Synthetic Protoberberine Derivative with Multiple Target Sites in <i>Candida albicans</i> ," <i>J. Antimicrobial Chemotherapy</i> 47:513-513	
	33	Rabbani et al. (1987) "Randomized Controlled Trial of Berberine Sulfate Therapy for Diarrhea Due to Enterotoxigenic <i>Escherichia coli</i> and <i>Vibrio cholerae</i> ," <i>J. Infectious Diseases</i> 5:979-984	
	34	Russell et al. (1996) "Antibiotic and Biocide Resistance in Bacteria," <i>Microbios</i> 85:45-65	
	35	Russell et al. (2000) "Do Biocides Select for Antibiotic Resistance," <i>J. Pharmacy Pharmacol.</i> 52:227-233	
	36	Russell et al. (2000) "Concentration: A Major Factor in Studying Biocidal Action," <i>J. Hospital Infection</i> 44:1-3	
	37	Scazzocchio et al. (2001) "Antibacterial Activity of <i>Hydrastis Canadensis</i> Extract and Its Major Alkaloids Isolated Alkaloids," <i>Planta Med.</i> 67:561-564	
	38	Sheng et al. (1997) "Treatment of Chloroquine-Resistant Malaria Using Pyrimethane in Combination with Berberine, Tetracycline or Cotrimoxazole," <i>East African Medical J.</i> 5:283-284	
	39	Slots et al. (1990) "Antibiotics in Periodontal Therapy: Advantages and Disadvantages," <i>J. Clin. Periodontology</i> 17:479-493	
	40	Southard et al. (1998) "Subgingival Controlled Release of Antimicrobial Agents in the Treatment of Periodontal Disease," <i>Int. J. Antimicrobial Agents</i> 9:239-253	
	41	Stermitz et al. (1999) "5'-Methoxydnocarpin-D and Pheophorbide A: <i>Berberis</i> Species Components that Potentiate Berberine Growth Inhibition of Resistant <i>Staphylococcus aureus</i> ," <i>J. Nat. Products</i> 63:146-149	
	42	Stickler et al. (1983) "Studies on the Genetic Basis of Chlorhexidine Resistance," <i>British J. Clin. Practice</i> 25(sup):23-28	
	43	Sulavik et al. (2001) "Antibiotic Susceptibility Profiles of <i>Escherichia coli</i> Strains Lacking Multidrug Efflux Pump Genes," <i>Antimicrobial Agents Chemotherapy</i> 45:1126-1136	
	44	Sun et al. (1988) "Berberine Sulphate Blocks Adherence of <i>Streptococcus pyogenes</i> to Epithelial Cells, Fibronectin and Hexadecane," <i>Antimicrobial Agents Chemotherapy</i> 32:1370-1374	
	45	Tice et al. (1997) "Goldenseal ( <i>Hydrastis Canadensis</i> L.) and Two of Its Constituent Alkaloids, Berberine [2086-83-1] and Hydrastine [118-08-1]," Review of toxicological Literature, Internet Source	

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